



HEALTH, SAFETY & ENVIRONMENT REPORT 2009

Kwinana Ag Chem, Australia

Kwinana in Western Australia manufactures agricultural chemicals.

The plant

The Kwinana Ag site manufactures, stores and distributes a wide range of Agricultural chemicals. Manufacturing includes: Synthesis of Diuron and Trifluralin, esterification of phenoxy acids, formulation of aqueous, emulsifiable and suspension concentrates, and powder milling.

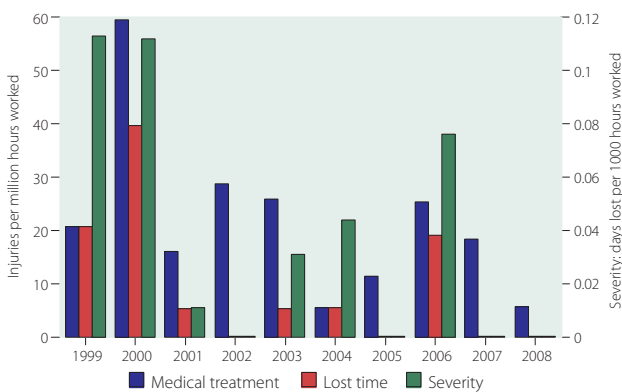
The site is the major distribution centre for Western Australia.

Health and safety performance

It is pleasing to report that there were no lost time injuries recorded for the site during 2008. Corrective actions were put in place as a consequence of the sole medical treatment injury incurred during the year. This involved a contractor having to have his thumb nail removed after getting it caught in a motorised pulley system.

Whilst serious injury trends are declining more focus is required on minor injuries as this trend is increasing.

Injury Frequency Rates



Note: All lost time injuries are also counted as medical treatment injuries

The site continues to invest in plant and equipment to improve operator amenity. Two examples include the installation of vapour extraction and filtration systems to minimise operator exposure in a formulation area.

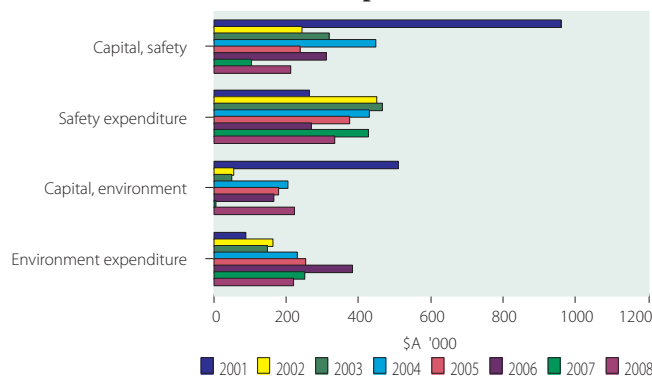
Training initiatives carried out in 2008 included first response fire training. Held at IFAP's fire training ground, participants were taught the principles of fire extinguishment, and then had hands on training on a very well set up fire ground.



Fire fighting training

The knowledge and experience gained through this training will prove invaluable should it ever be required at either work or in the home.

Expenditure



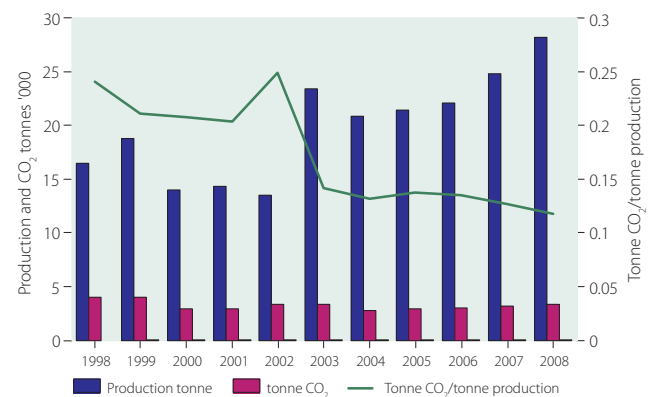
Entrance to the Kwinana manufacturing plant

Energy

The site uses a moderate amount of energy and usage has been largely consistent with production activities over the past five years, though there have been minor gains in efficiency every year. The sudden change in efficiency in 2003 is due to a major change in production mix, with more formulation activity and discontinuing the manufacture of water dispersible granules, a high energy using process.

In 2008 we had a 13% increase in production volume over 2007, while our energy consumption increased by only 6%.

Energy efficiency



Water use

The site remains a relatively low user of scheme water. (Some errors in data from previous years were found and corrected in the graph below). More than half the water we use is sold as part of our products.

Water efficiency



Recycling

Nufarm continues to strive towards the reduction of waste generation from manufacturing process.

Where materials become redundant, such as empty raw material containers (drums and bags), we make every effort to clean them and to find a recycling opportunity.

Internally, wash solutions from cleaning of equipment are collected and, wherever possible, returned to production when we make a batch of a compatible product.

Staff are actively involved in recycling of paper, cardboard and aluminium cans.

Waste treatment and disposal

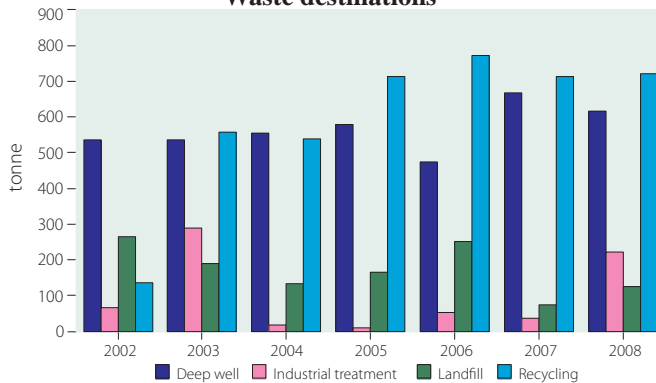
Systems capture waste produced on site and track it through recycling or to its disposal via approved means.

Landfill has decreased over the years, recycling has increased.

Industrial treatment applies to wastes that need to be destroyed and includes some historical waste which we need to prepare for destruction before dispatch. This historical waste often needs to be characterised before a suitable means of disposal can be devised. This is a slow and expensive process.

About 99% of the amount of waste going to the deep well is salt, the remainder are small amounts of organic compounds and a few kg of herbicides. The receiving aquifer is more than 1 km underground and highly saline.

Waste destinations



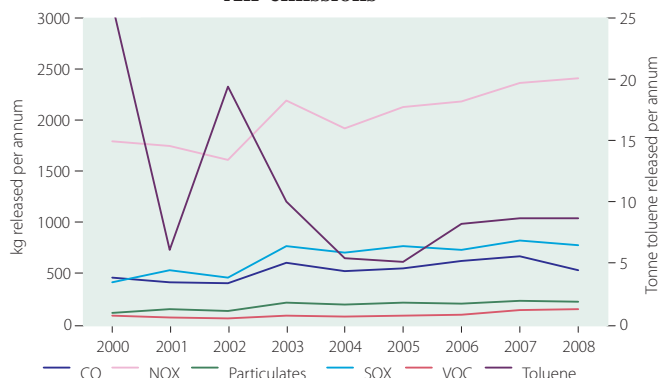
Emissions to air

Air emissions from energy consumption remain consistent and are proportional to the amount of fuel consumed. Reduced toluene emissions achieved over recent years have been maintained.



Air emission monitoring

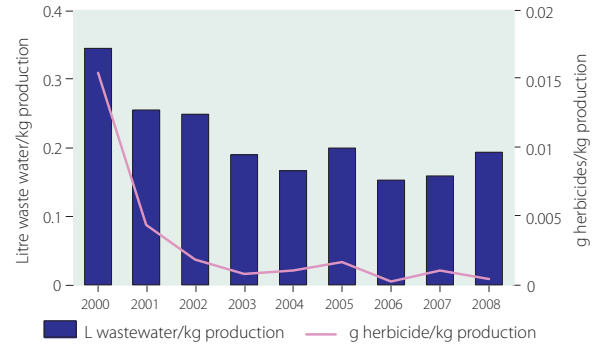
Air emissions



Environmental performance

All environmental licence conditions were met during 2008.

The site has maintained the reduced herbicide load in the effluent stream to a very small quantity.



A project that will involve laboratory and pilot scale waste water treatment technologies was launched in 2008. Whilst this will reduce organic load in the site's waste water, an alternative to the current practice of Deep Well Injection is yet to be identified. The new wastewater storage and treatment plant is all but complete and will be commissioned in early 2009.



New wastewater storage and treatment plant

Social responsibility

The Nufarm Kwinana site is an Associate Member of the KIC (Kwinana Industries Council). Nufarm's representative completed a two year term as KIC President. The KIC is set up to promote and contribute to the sustainable coexistence of Industry, the Community and the Environment. Nufarm also attends a local Communities and Industries Forum which is designed to foster communication between industry and community. As part of Nufarm's community interaction approach, a number of Nufarm personnel attend various committees including cultural, professional, education, employment and training groups. Nufarm is also closely involved in the Kwinana Industries Education Partnership (KIEP) and through this program directly supports science scholarships, arts partnerships, chemistry lectures, graduation awards, science in industry tours and successful transition from school to work programs. Employee generated charity initiatives, for example, The Smith Family Christmas Appeal, Cancer Council appeal and 'Movember' are encouraged and supported by the company.



Lynne Woolfenden with winning art team entry from Tranby College, Baldvis.

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